

INTERNATIONAL SEARCH REPORT

International application No.

PCT/ES/00/00450

A. CLASSIFICATION OF SUBJECT MATTER

CIP⁷ A61K 31/352, 35/78, A61P 35/00, 25/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

CIP⁷ A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CIBEPAT, EPODOC, WPI, BIOSIS, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| X | HARRIS, L.S. et al.: "Retardation of tumor growth by Δ-9 tetrahydrocannabinol", The Pharmacologist (1974), vol. 16 (2), pag. 259, see abstract | 1, 3, 7, 8 |
| X | HARRIS, L.S. et al.: "Anti-tumor properties of cannabinoids", Braude, M.C. & Stephen Szard (ed) 'Pharmacology of marihuana', vol. 1 y 2 - A monograph of the National Institute of Drug Abuse. Proceedings of the Meeting Savannah, GA, USA, Dic. 3-6, 1974. Illus. Raven Press: New York, NY, USA, ISBN 0-89004-067-2, 1976, pp.: 749-762, the all document see in particular, page 753, lines 4-10 | 1, 3, 7, 8 |
| X | BAEK SEUNG-HWA, et al.: "Synthesis and antitumor activity of cannabigerol", Archives of Pharmacol. Res. (Seoul), 1996, vol. 19 (3), pp.: 228-230, see page 228, last paragraph and page 229, first paragraph | 1 |



Further documents are listed in the continuation of Box C.



See patent family annex

- * Special categories of cited documents:
 - "A" document defining the general state of the art which is not considered to be of particular relevance
 - "E" earlier document but published on or after the international filing date
 - "T" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 - "O" document referring to an oral disclosure, use, exhibition or other means
 - "P" document published prior to the international filing date but later than the priority date claimed
- T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- & document member of the same patent family

Date of the actual completion of the international search
21 February 2001 (21.02.01)Date of mailing of the international search report
02 March 2001 (02.03.01)

Name and mailing address of the ISA/

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| X | BAEK SEUNG-HWA, et al.: "Boron trifluoride etherate on silica-A modified Lewis acid reagent (VII). Antitumor activity of cannabigerol against human oral epitheloid carcinoma cells", Archives of Pharmacol. Res. (Seoul), June 1998, vol. 21 (3), pp.: 353-356, see pages 354 - 356 "Results and Discussion" | 1 |
| A | RUIZ, L. et al.: " Δ -9 tetrahydrocannabinol induces apoptosis in human prostate PC-3 cells via a receptor-independent mechanism", FEBS Lett. (1999), vol. 458 (3), pp.: 400-404, ISSN: 0253-5823 | |

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Box I Observations where certain claims were found unsearchable (Continuation of item I of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: 13 - 15 because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.